

An enhanced situational awareness of a mission for an autonomous vehicle by multirate control

Astrov, Igor; Pedai, Andrus Proceedings of the 5th WSEAS International Conference on Dynamical Systems and Control :

CONTROL'09 : La Laguna, Spain, July 1-3, 2009 2009 / p. 33-39

https://www.researchgate.net/publication/228809791_An_enhanced_situational_awareness_of_a_mission_for_an_autonomous_underwater_vehicle_by_multirate_control

An enhanced situational awareness of AUV's mission by multirate neural control

Astrov, Igor; Pikkov, Mihhail World Academy of Science, Engineering and Technology 2012 / p. 91-97 : ill

<https://zenodo.org/records/1335220>

An enhanced situational awareness of AUV's mission by multirate neural control [Electronic resource]

Astrov, Igor; Pikkov, Mihhail ICMOS 2012 CD-ROM Proceedings : [International Conference on Modelling, Optimization and

Simulation (ICMOS 2012), Berlin, Germany, September 19-20, 2012] 2012 / [7 p.] : ill [CD-ROM] <https://zenodo.org/records/1335220>

Control of hovering manoeuvres in unmanned helicopter for enhanced situational awareness

Astrov, Igor; Pedai, Andrus Proceedings of the 2009 IEEE International Conference on Mechatronics and Automation : August 9-

12, Changchun, China 2009 / p. 143-146 : ill <https://ieeexplore.ieee.org/document/5156580>

Data exchange for shared situation awareness

Preden, Jürjo-Sören; Mötus, Leo; Pahtma, Raido; Meriste, Merik CogSIMA 2012 : 2012 IEEE International Multi-Disciplinary

Conference on Cognitive Methods in Situation Awareness and Decision Support : [proceedings] 2012 / p. 198-201 : ill

<https://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=6188380>

Desired trajectory generation of a quadrotor helicopter using hybrid control for enhanced situational awareness

Astrov, Igor; Pedai, Andrus; Rüstern, Ennu Proceedings of the 2010 IEEE International Conference on Information and

Automation : June 20-23, Harbin, China 2010 / p. 1003-1007 : ill <https://ieeexplore.ieee.org/document/5512295>

Enhanced situational awareness for AUV's stochastic model by multirate neural control

Astrov, Igor; Pedai, Andrus SysCon 2010 Proceedings : 2010 IEEE International Systems Conference (SysCon 2010), San Diego,

California, USA, April 5-8, 2010 2010 / p. 66-70 : ill <https://ieeexplore.ieee.org/document/5482465>

Enhancing situational awareness by means of hybrid adaptive neural control of vertical flight in unmanned helicopter [Electronic resource]

Pedai, Andrus; Astrov, Igor ICCAS 2008 CD-ROM proceedings : International Conference on Control, Automation and Systems

2008 (ICCAS 2008, Seoul, Korea, October 14-17, 2008) 2008 / p. 329-332 [CD-ROM] <https://ieeexplore.ieee.org/document/4694666>

Enhancing situational awareness through neural regulation of take-off and landing manoeuvres in unmanned helicopter

Astrov, Igor; Pedai, Andrus Recent advances in computational intelligence, man-machine systems and cybernetics : proceedings of

7th WSEAS International Conference on Computational Intelligence, Man-machine Systems and Cybernetics (CIMMACS'08) : Cairo,

Egypt, December 29-31, 2008 2008 / p. 29-34

https://www.researchgate.net/publication/228896465_Enhancing_situational_awareness_through_neural_regulation_of_take-off_and_landing_manoeuvres_in_unmanned_helicopter

Enhancing situation-awareness, cognition and reasoning of ad-hoc network agents = Spontaanvõrgu agentide situatsiooniteadlikkuse, taju ja arutlusvõime täiendamine

Preden, Jürjo-Sören 2010 https://www.ester.ee/record=b2607110*est

Exchanging situational information in embedded networks

Preden, Jürjo-Sören; Pahtma, Raido Proceedings of International Conference on Adaptive Science & Technology : ICAST 2009 :

Accra, Ghana, 14-16 December 2009 2009 / ? p <https://ieeexplore.ieee.org/document/5409713>

Flight control of a trirotor mini-UAV for enhanced situational awareness

Astrov, Igor; Pedai, Andrus Proceedings of the World Academy of Science, Engineering and Technology 2010 / p. 271-277 : ill

<https://zenodo.org/records/1060629>

Flight control of a trirotor mini-UAV for enhanced situational awareness [Electronic resource]

Astrov, Igor; Pedai, Andrus ICAAE 2010 CD-ROM Proceedings : International Conference on Aeronautical and Astronautical

Engineering : Amsterdam, Netherlands, September 28-29, 2010 2010 / p. 316-322 [CD-ROM]

Flight control of TUAV with coaxial rotor and ducted fan configuration by NARMA-L2 controllers for enhanced situational awareness

Astrov, Igor; Pedai, Andrus; Gordon, Boris World Academy of Science, Engineering and Technology 2012 / p. 75-81 : ill

<https://publications.waset.org/13553/flight-control-of-tuav-with-coaxial-rotor-and-ducted-fan-configuration-by-narma-l2-controllers-for-enhanced-situational-awareness>

Flight control of TUAV with coaxial rotor and ducted fan configuration by NARMA-L2 controllers for enhanced situational awareness [Electronic resource]

Astrov, Igor; Pedai, Andrus; Gordon, Boris ICCEA 2012 CD-ROM Proceedings : [International Conference on Computer Engineering and Applications (ICCEA 2012) : Copenhagen, Denmark, June 11-12, 2012] 2012 / p. 75-81 : ill [CD-ROM]
<https://publications.waset.org/13553/flight-control-of-tuav-with-coaxial-rotor-and-ducted-fan-configuration-by-narma-l2-controllers-for-enhanced-situational-awareness>

Flight trajectory control of an eight-rotor UAV for enhanced situational awareness

Astrov, Igor; Pedai, Andrus Recent Researches in System Science : proceedings of the 15th WSEAS International Conference on Systems (part of the 15th WSEAS CSCC Multiconference) : Corfu Island, Greece, July 14-16, 2011 2011 / p. 77-82
<http://www.wseas.us/e-library/conferences/2011/Corfu/SYSTEMS/SYSTEMS-10.pdf>

Mapping the information flows for the architecture of a nationwide situation awareness system : (Poster)

Bahsi, Hayretidin; Dieves, Veiko; **Kangilaski, Taivo;** Laud, Peeter; **Mõtus, Leo;** Murumets, Jaan; Ploom, Illimar; **Priisalu, Jaan;** Seeba, Mari; **Täks, Ermo;** Tammel, Kaide; **Tammppuu, Piia;** **Taveter, Kuldar;** Trumm, Avo; Truusa, Tiia-Triin; Vihalemm, Triin
Proceedings 2019 IEEE International Conference on Cognitive and Computational Aspects of Situation Management (CogSIMA) : Las Vegas, NV, USA, 8-11 April 2019 2019 / p. 152-157 <https://doi.org/10.1109/COGSIMA.2019.8724167>

Motion control of X4-flyer for enhanced situational awareness

Astrov, Igor; Pedai, Andrus Latest trends on systems : 14th WSEAS International Conference on Systems : Greece, July 22-24. Vol. 1 2010 / p. 123-128: ill https://www.researchgate.net/publication/228503868_Motion_control_of_X4-flyer_for_enhanced_situational_awareness

Multirate depth control of an AUV by neural network model reference controller for enhanced situational awareness

Astrov, Igor; Gordon, Boris Recent researches in applied information science : proceedings of the 5th WSEAS World Congress on Applied Computing Conference (ACC '12) : proceedings of the 1st International Conference on Biologically Inspired Computation (BIC '12) : University of Algarve, Faro, Portugal, May 2-4, 2012 2012 / p. 32-37 : ill <http://www.wseas.us/e-library/conferences/2012/Algarve/BICA/BICA-04.pdf>

Multirate depth control of an AUV by neural network predictive controller for enhanced situational awareness [Electronic resource]

Astrov, Igor; Pedai, Andrus 5th International Symposium on Computational Intelligence and Intelligent Informatics (ISCII 2011) : Floriana, Malta, September 15-17, 2011 : proceedings 2011 / p. 47-52 [CD-ROM] <https://ieeexplore.ieee.org/document/6069740>

Multirate depth control of an AUV by neurocontroller for enhanced situational awareness

Astrov, Igor; Pedai, Andrus Advances in Computational Intelligence, Man-Machine Systems and Cybernetics 2010 / p. 21-26 : ill https://www.researchgate.net/publication/228917649_Multirate_depth_control_of_an_AUV_by_neurocontroller_for_enhanced_situational_awareness

Multirate neural control for AUV's increased situational awareness during diving tasks using stochastic model

Astrov, Igor; Pedai, Andrus Proceedings of the World Academy of Science, Engineering and Technology 2010 / p. 337-343 : ill https://www.researchgate.net/publication/290764780_Multirate_neural_control_for_AUV's_increased_situational_awareness_during_diving_tasks_using_stochastic_model

Multirate neural control for AUV's increased situational awareness during diving tasks using stochastic model [Electronic resource]

Astrov, Igor; Pedai, Andrus ICMISE 2010 CD-ROM proceedings : International Conference on Machine Intelligence and Systems Engineering : Singapore, December 18-20, 2010 2010 / p. 214-220 [CD-ROM]

Situation awareness for networked systems

Preden, Jürjo-Sören; Mõtus, Leo; Meriste, Merik; Riid, Andri 2011 IEEE International Multi-Disciplinary Conference on Cognitive Methods in Situation Awareness and Decision Support : CogSIMA : Miami, USA, 22-24 Februar 2011 2011 / p. 123-130 : ill

Situation awareness of computing agents

Preden, Jürjo-Sören Thirteenth Estonian Winter School in Computer Science (EWSCS'08) : Park Hotel Palmse, Lahemaa, Estonia : March 2-7, 2008 2008 / [1] p. (Student talks and posters 2008 (abstracts))

Situational awareness based flight control of a drone [Electronic resource]

Astrov, Igor; Pedai, Andrus 2011 IEEE International Systems Conference (SysCon 2011) : Montreal, Quebec, Canada, April 4-7, 2011 : proceedings 2011 / p. 574-578 [CD-ROM] <https://ieeexplore.ieee.org/document/5929033>

Situational awareness based flight control of a four-rotor type UAV

Astrov, Igor; Pedai, Andrus Recent Researches in Automatic Control : 13th WSEAS International Conference on Automatic Control, Modelling and Simulation (ACMOS'11) : Lanzarote, Canary Islands, Spain, May 27-29, 2011 2011 / p. 63-68
https://www.researchgate.net/profile/Andrus-Pedai/publication/228410099_Situational_awareness_based_flight_control_of_a_four-rotor_type_UAV/links/0a85e52e763a72405e000000/Situational-awareness-based-flight-control-of-a-four-rotor-type-UAV.pdf?origin=scientificContributions

Situational awareness based flight control of a three-rotor mini-aircraft

Astrov, Igor; Pedai, Andrus New aspects of automatic control, modelling and simulation 2010 / p. 71-76

Some issues in modelling comprehensive situation awareness

Mõtus, Leo; Teichmann, Mare; Kangilaski, Taivo; Priisalu, Jaan; Kaugerand, Jaanus 2019 IEEE International Conference on Systems, Man and Cybernetics (SMC) 2019 / p. 540–545 : ill <http://doi.org/10.1109/SMC.2019.8914360>

Time-selective data fusion for in-network processing in ad hoc wireless sensor networks

Kaugerand, Jaanus; Ehala, Johannes; Mõtus, Leo; Preden, Jürjo-Sören International journal of distributed sensor networks 2018 / p. 1-17 : ill <https://doi.org/10.1177/1550147718811302> [Journal metrics at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Towards middleware based situation awareness

Mõtus, Leo; Meriste, Merik; Preden, Jürjo-Sören Military Communications Conference - 2009 : MILCOM 2009 : 18-21 October 2009. 5th IEEE Workshop on Situation Management : SIMA 2009 : Boston, 19-21 October 2009 / [7] p
<https://ieeexplore.ieee.org/document/5379986>

Two-rate motion control of VTAV by NARMA-L2 controller for enhanced situational awareness [Electronic resource]

Astrov, Igor 2016 39th International Convention on Information and Communication Technology, Electronics and Microelectronics (MIPRO) : May 30-June 3, 2016, Opatija, Croatia : proceedings 2016 / p. 1126-1131 : ill. [CD-ROM]
<https://doi.org/10.1109/MIPRO.2016.7522309>

Two-rate neural control of TUAV with coaxial rotor and ducted fan configuration for enhanced situational awareness

Astrov, Igor; Pedai, Andrus; Gordon, Boris Proceedings of 9th International Conference 2012 ELEKTRO : May 21 - 22, 2012, Žilina-Rajecké Teplice, Slovakia 2012 / p. 159-164 : ill <https://ieeexplore.ieee.org/document/6225630>